PCT10

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/088,079

DATE: 04/09/2002
TIME: 13:06:45

Input Set : A:\45419_SeqList.txt
Output Set: N:\CRF3\04092002\J088079.raw

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   3 <110> APPLICANT: National Research Council of Canada
   5 <120> TITLE OF INVENTION: Transgenic manipulation of sn-glycerol-3-phosphate and
   6        glycerol production with a feedback defective
   7        glycerol-3-phosphate dehydrogenase gene
   9 <130> FILE REFERENCE: 45419
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/088,079
C--> 12 <141> CURRENT FILING DATE: 2002-03-21
  14 <150> PRIOR APPLICATION NUMBER: US60/155133
  15 <151> PRIOR FILING DATE: 1999-09-22
  17 <160> NUMBER OF SEQ ID NOS: 6
  19 <170> SOFTWARE: PatentIn Ver. 2.1
  21 <210> SEQ ID NO: 1
  22 <211> LENGTH: 1020
  23 <212> TYPE: DNA
  24 <213> ORGANISM: Escherichia coli
  26 <400> SEQUENCE: 1
  27 atgaaccaac gtaatgcttc aatgactgtg atcggtgccg gctcgtacgg caccgctctt 60
  28 gccatcaccc tggcaagaaa tggccacgag gttgtcctct ggggccatga ccctgaacat 120
  29 atcgcaacgc ttgaacgcga ccgctgtaac gccgcgtttc tccccgatgt gccttttccc 180
  30 gatacgctcc atcttgaaag cgatctcgcc actgcgctgg cagccagccg taatattctc 240
  31 gtcgtcgtac ccagccatgt ctttggtgaa gtgctgcgcc agattaaacc actgatgcgt 300
  32 cctgatgcgc gtctggtgtg ggcgaccaaa gggctggaag cggaaaccgg acgtctgtta 360
  33 caggacgtgg cgcgtgaggc cttaggcgat caaattccgc tggcggttat ctctggccca 420
  34 acgtttgcga agaactggc ggcaggttta ccgacagcta tttcgctggc ctcgaccgat 480
  35 cagacctttg ccgatgatct ccagcagctg ctgcactgcg gcaaaagttt ccgcgtttac 540
  36 agcaatccgg atttcattgg cgtgcagctt ggcggcgcgg tgaaaaacgt tattgccatt 600
  37 ggtgcgggga tgtccgacgg tatcggtttt ggtgcgaatg cgcgtacggc gctgatcacc 660
  38 cgtgggctgg ctgaaatgtc gcgtcttggt gcggcgctgg tgccgaccc tgccaccttt 720
  39 atgggcatgg cggggcttgg cgatctggtg cttacctgta ccgaaaacca gtcgcgtaac 780
  40 cgccgttttg gcatgatgct cggtcagggc atggatgtac aaagcgcgca ggagaagatt 840
  41 ggtcaggtgg tggaaggcta ccgcaatacg aaagaagtcc gcgaactggc gcatcgcttc 900
  42 ggcgttgaaa tgccaataac cgaggaaatt tatcaagtat tatattgcgg aaaaaacgcg 960
  43 cgcgaggcag cattgacttt actaggtcgt gcacgcaagg acgagcgcag cagccactaa 1020
  45 <210> SEQ ID NO: 2
  46 <211> LENGTH: 339
  47 <212> TYPE: PRT
  48 <213> ORGANISM: Escherichia coli
  50 <400> SEQUENCE: 2
  51 Met Asn Gln Arg Asn Ala Ser Met Thr Val Ile Gly Ala Gly Ser Tyr
  52   1               5                  10                  15
  54 Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg Asn Gly His Glu Val Val
  55              20                  25                  30
  57 Leu Trp Gly His Asp Pro Glu His Ile Ala Thr Leu Glu Arg Asp Arg
```

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58            35                    40                    45
60 Cys Asn Ala Ala Phe Leu Pro Asp Val Pro Phe Pro Asp Thr Leu His
61         50                    55                    60
63 Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala Ala Ser Arg Asn Ile Leu
64  65                    70                    75                    80
66 Val Val Val Pro Ser His Val Phe Gly Glu Val Leu Arg Gln Ile Lys
67                 85                    90                    95
69 Pro Leu Met Arg Pro Asp Ala Arg Leu Val Trp Ala Thr Lys Gly Leu
70             100                   105                   110
72 Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp Val Ala Arg Glu Ala Leu
73         115                   120                   125
75 Gly Asp Gln Ile Pro Leu Ala Val Ile Ser Gly Pro Thr Phe Ala Lys
76     130                   135                   140
78 Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile Ser Leu Ala Ser Thr Asp
79 145                   150                   155                   160
81 Gln Thr Phe Ala Asp Asp Leu Gln Gln Leu Leu His Cys Gly Lys Ser
82             165                   170                   175
84 Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile Gly Val Gln Leu Gly Gly
85             180                   185                   190
87 Ala Val Lys Asn Val Ile Ala Ile Gly Ala Gly Met Ser Asp Gly Ile
88         195                   200                   205
90 Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu Ile Thr Arg Gly Leu Ala
91     210                   215                   220
93 Glu Met Ser Arg Leu Gly Ala Ala Leu Gly Ala Asp Pro Ala Thr Phe
94 225                   230                   235                   240
96 Met Gly Met Ala Gly Leu Gly Asp Leu Val Leu Thr Cys Thr Glu Asn
97             245                   250                   255
99 Gln Ser Arg Asn Arg Arg Phe Gly Met Met Leu Gly Gln Gly Met Asp
100             260                   265                   270
102 Val Gln Ser Ala Gln Glu Lys Ile Gly Gln Val Val Glu Gly Tyr Arg
103         275                   280                   285
105 Asn Thr Lys Glu Val Arg Glu Leu Ala His Arg Phe Gly Val Glu Met
106     290                   295                   300
108 Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu Tyr Cys Gly Lys Asn Ala
109 305                   310                   315                   320
111 Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg Ala Arg Lys Asp Glu Arg
112             325                   330                   335
114 Ser Ser His
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
125         GPSA3
127 <400> SEQUENCE: 3
128 ttagtggctg ctgcgctc                                                  18
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 18
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132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
137       GPSA5
139 <400> SEQUENCE: 4
140 aacaatgaac caacgtaa                                                    18
142 <210> SEQ ID NO: 5
143 <211> LENGTH: 26
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR pimer
149       GPSA31
151 <400> SEQUENCE: 5
152 gagagctctt agtggctgct gcgctc                                          26
154 <210> SEQ ID NO: 6
155 <211> LENGTH: 30
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Description of Artificial Sequence:PCR primer
161       GPSA51
163 <400> SEQUENCE: 6
164 gaagaaggat ccaacaatga accaacgtaa                                      30
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VERIFICATION SUMMARY
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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date